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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/473,551

DATE: 01/24/2000  
TIME: 11:49:59

Input Set: I473551.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

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1 <110> APPLICANT: MILBRANDT, Jeffrey D.  
2 BALOH, Robert H.  
3 <120> TITLE OF INVENTION: GFR-alpha-1-RET Specific Agonists and Methods Therefor  
4 <130> FILE REFERENCE: 6029-9879  
5 <140> CURRENT APPLICATION NUMBER: US/09/473,551  
6 <141> CURRENT FILING DATE: 1999-12-28  
7 <160> NUMBER OF SEQ ID NOS: 28  
8 <170> SOFTWARE: PatentIn Ver. 2.0  
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16 Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys  
17 20 25 30  
18 Pro Arg Gly Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu Gln  
19 35 40 45  
20 Gly Gln Gly Arg Ala His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr  
21 50 55 60  
22 Thr Asp Val Ala Phe Leu Asp Asp Arg His Arg Trp Gln Arg Leu Pro  
23 65 70 75 80  
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27 <211> LENGTH: 89  
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29 <213> ORGANISM: Mouse  
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32 1 5 10 15  
33 Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys  
34 20 25 30  
35 Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg  
36 35 40 45  
37 Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr  
38 50 55 60  
39 Ala Asp Val Thr Phe Leu Asp Asp Gln His His Trp Gln Gln Leu Pro  
40 65 70 75 80  
41 Gln Leu Ser Ala Ala Ala Cys Gly Cys  
42 85  
43 <210> SEQ ID NO 3  
44 <211> LENGTH: 89

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45 <212> TYPE: PRT
46 <213> ORGANISM: RAT
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51           20           25           30
52   Pro Gln Glu Val Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
53     35           40           45
54   Gly Gln Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr
55     50           55           60
56   Ala Asp Val Thr Phe Leu Asp Asp His His His Trp Gln Gln Leu Pro
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58   Gln Leu Ser Ala Ala Ala Cys Gly Cys
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67   Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
68           20           25           30
69   Asp Ala Ala Glu Thr Thr Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
70           35           40           45
71   Asn Arg Arg Leu Val Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
72     50           55           60
73   Ile Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
74     65           70           75           80
75   His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys
76           85           90
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82   Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
83     1           5           10           15
84   Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
85           20           25           30
86   Glu Ser Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
87           35           40           45
88   Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
89     50           55           60
90   Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
91     65           70           75           80
92   His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys
93           85           90
94 <210> SEQ ID NO 6

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102             20           25           30
103   Glu Ala Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
104             35           40           45
105   Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
106             50           55           60
107   Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Ser Leu Val Tyr
108             65           70           75           80
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119             20           25           30
120   Glu Ala Ala Ala Arg Val Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln
121             35           40           45
122   Arg Arg Arg Leu Arg Arg Glu Arg Val Arg Ala Gln Pro Cys Cys Arg
123             50           55           60
124   Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Ala His Ser Arg
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126   Tyr His Thr Val His Glu Leu Ser Ala Arg Glu Cys Ala Cys
127             85           90
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134      1           5           10           15
135   Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys Ala Gly Ala Cys
136             20           25           30
137   Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln
138             35           40           45
139   Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala His Pro Cys Cys Arg
140             50           55           60
141   Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Val His Ser Arg
142             65           70           75           80
143   Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu Cys Ala Cys
144             85           90

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152   His Arg Ser Asp Glu Leu Val Arg Phe Arg Phe Cys Ser Gly Ser Cys
153             20             25             30
154   Arg Arg Ala Arg Ser Pro His Asp Leu Ser Leu Ala Ser Leu Leu Gly
155             35             40             45
156   Ala Gly Ala Leu Arg Pro Pro Pro Gly Ser Arg Pro Val Ser Gln Pro
157             50             55             60
158   Cys Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn
159             65             70             75             80
160   Ser Thr Trp Arg Thr Val Asp Arg Leu Ser Ala Thr Ala Cys Gly Cys
161             85             90             95
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165 <213> ORGANISM: Mouse
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169   His Ser Ser Asp Glu Leu Ile Arg Phe Arg Phe Cys Ser Gly Ser Cys
170             20             25             30
171   Arg Arg Ala Arg Ser Gln His Asp Leu Ser Leu Ala Ser Leu Leu Gly
172             35             40             45
173   Ala Gly Ala Leu Arg Ser Pro Pro Gly Ser Arg Pro Ile Ser Gln Pro
174             50             55             60
175   Cys Cys Arg Pro Thr Arg Tyr Glu Ala Val Ser Phe Met Asp Val Asn
176             65             70             75             80
177   Ser Thr Trp Arg Thr Val Asp His Leu Ser Ala Thr Ala Cys Gly Cys
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186   Lys Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu
187             20             25             30
188   Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala
189             35             40             45
190   Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala
191             50             55             60
192   Arg Leu Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro
193             65             70             75             80
194   Thr Ala Phe Asp Asp Asp Val Thr Phe Leu Asp Asp Gln His His Tyr

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201 <213> ORGANISM: MURINE
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205      Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys
206                      20                      25                      30
207      Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
208                      35                      40                      45
209      Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ala Phe
210                      50                      55                      60
211      Asp Asp Asp Val Thr Phe Leu Asp Asp Gln His His Tyr His Ile Leu
212      65                      70                      75                      80
213      Arg Lys His Ser Ala Ala Ala Cys Gly Cys
214                      85                      90
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218 <213> ORGANISM: Mouse
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222      Lys Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu
223                      20                      25                      30
224      Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala
225                      35                      40                      45
226      Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala
227                      50                      55                      60
228      Arg Leu Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro
229      65                      70                      75                      80
230      Thr Ala Tyr Glu Asp Glu Val Thr Phe Leu Asp Asp Gln His His Tyr
231                      85                      90                      95
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233                      100                      105
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237 <213> ORGANISM: Mouse
238 <400> SEQUENCE: 14
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241      Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys
242                      20                      25                      30
243      Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
244                      35                      40                      45

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VERIFICATION SUMMARY  
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